WILDCAT™ EP

Your Wildcat EP package comes supplied with an extra strut (AQUB8803). If you feel you need to replace the strut, here is a simple set of instructions on how to do so.

1. Remove the canopy from the top of the boat.
2. Using a 1.5mm hex wrench, loosen the two set screws holding the drive cable to the drive cable coupler.
3. From the back of the boat, grasp the prop and slide the drive out the back of the boat.
4. Using a Phillips screwdriver, remove the 4 screws that hold the strut and rudder bracket to the back of the boat.
5. Remove the strut by sliding it straight back off the brass stuffing tube.
6. Install the new strut by reversing the disassembly procedure. Be careful not to overtighten the screws.

AQUACRAFT® Models

AQUB1810ADDN1

© 2013 Hobbico, Inc. All rights reserved.

AQUACRAFT® Models

aquacraftmodels.com

WILDCAT™ EP

WARNING

- Never attempt to swim after a stalled RC boat.
- Never operate your RC boat while standing in the water.
- Never operate your RC boat in the presence of swimmers.
- Always use a Personal Flotation Device (PFD) when boarding and operating your retrieval craft, i.e. Jon boat or duck boat. NOTE: Because of the sharp running hardware included with this RC boat, we do not recommend a rubber blow up raft.
- RC boat running hardware is very sharp. Be very careful when working on and around the metal parts.
- While the motor is running, pay close attention to the propeller. Do not come in contact with the propeller at any time the engine is running or serious injury will result.
- AquaCraft products are to be used by ages 14 and over.

INTRODUCTION & DESCRIPTION CHANGES

THANK YOU FROM AQUACRAFT

Thank you for purchasing the AquaCraft Wildcat EP! We want the time you spend with your new RC boat to be fun and successful so please fully read the manual. If for any reason you think this model is not for you, return it to your local dealer immediately. **NOTE: Your hobby dealer cannot accept a return on any model after final assembly or after your boat has been subject to operation.**

All pictures, descriptions, and specifications found in this instruction manual are subject to change without notice. AquaCraft maintains no responsibility for inadvertent errors in this manual.

ITEMS INCLUDED

- ❍ Completed Boat
- ❍ Transmitter
- ❍ Boat Stand

PARTS NEEDED TO COMPLETE YOUR MODEL

- ❍ LiPo Battery Charger
- ❍ LiPo Battery Pack
- ❍ 4 - AA Dry Cell Batteries
- ❍ 1 - HIGHLY RECOMMENDED LiPo Sack (GPMP0751)

BATTERY AND CHARGER CHOICES

Feel free to mix and match based on your budget.

Battery

- ❍ Great Planes® LiPo 3S 11.1V 2000mAh w/Plg AXE™ 400 3D RTF (GPMP0406)

OR

- ❍ FlightPower® LiPo EON-X™ 30 3S 11.1V 3800mAh 30C (FPWP6438)

Charger

- ❍ DuraTrax ONYX™ 235 Advanced Charger w/ Balancing LC (DTXP4235)

OR

- ❍ Triton™ EQ AC/DC Charger (GPMM3155)

RECOMMENDED OPTIONAL PARTS

- ❍ Speed Grease™ (AQUB9500)
- ❍ 1.5mm Hex Wrench (DTXR0288)
- ❍ GrimRacer™ Pro Radio Box Tape (AQUB9514)
- ❍ Great Planes CellMatch™ (GPMM3210)

IMPORTANT LIPO PERFORMANCE AND CARE INFORMATION!

To get the most performance and safety from your LiPo battery, please read and understand the following information.

CHARGING

For best performance and longest battery life, never charge your LiPos at a charge rate higher than 1C. (1000mAh = 1amp). Never charge your battery pack in the model and always place your battery in a safe charge container like a LiPo Sack (GPMP0751) or other safe charge container when charging.

DISCHARGING OR OPERATION

We have found it best to use only 80% of the rated mAh of the battery pack per discharge (boat run). You will experience rapid depletion of battery pack performance if you continue to discharge your packs below the 80% usage target.

NOTE: Your AquaCraft Wildcat EP Motor Controller has a stutter bump warning system that warns you of low battery voltage. This system starts its warning at or around 9.7V total, giving you time to bring the boat back to shore before the motor controller cuts off at 9V total. This is a built-in safety system for you, your boat and your batteries. Although this system is in place we still recommend adjusting your run times to not exceed 80% battery usage.

STORAGE

Store your battery pack/s in a LiPo Sack (GPMP0751) or other battery containment container. It is also best to store them in a cool, dry place and on a fire resistant surface. It is best to charge your batteries to either a full charge (if you feel you will be using the packs frequently) or at or around 50% rated capacity for longer storage.

WARRANTY SERVICE

AquaCraft will warrant your Wildcat EP for 90 days after the purchase from defects in materials or workmanship of original manufacture. AquaCraft, at their option, will repair or replace at no charge, the incorrectly made part. This warranty does not cover damage caused by crash, abuse, misuse, alteration or accident. To return your boat for repairs you need to provide proof of purchase. Your store receipt or product invoice will suffice. IN NO EVENT SHALL THE PURCHASER BE ENTITLED TO ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM

AQUB1810 Wildcat EP Mnl.indd 2 10/3/2011 2:04:46 PM

THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Outside USA and Canada, contact the local importer for warranty information.

HOBBY SERVICES
Attn: Service Department
3002 N. Apollo Drive, Suite 1
Champaign, Illinois 61822

Ph: (217) 398-0007
9:00 am - 5:00 pm
Central Time M-F

E-mail: hobbyservices@hobbico.com

SAFETY PRECAUTIONS

- **Never ever attempt to swim after a stalled RC boat. Do not get in the water for any reason to retrieve your boat. To aid you in retrieving a stalled RC boat, set up a fishing reel with a tennis ball tied to the end of the line. Or better yet, get yourself a small Jon boat so you can row out and pick up your boat. Remember to use a PFD any time you enter your retrieval craft.**
- AquaCraft products are to be used by ages 14 and over.
- Do not touch the propeller anytime the motor is running. Pay equally close attention to items such as loose clothing, shirtsleeves, ties, scarves, long hair or anything that may become entangled in the spinning prop. If your fingers, hands, etc. come in contact with the spinning propeller, you may be severely injured.
- The speed and mass of this boat can inflict property damage and severe personal injury if a collision occurs. Never run this boat in the presence of swimmers or where the possibility of collision with people or property exists.
- Electric motors produce heat. Do not touch any part of your motor until it has cooled.
- This boat is controlled by radio signals, which are susceptible to possible interference from other R/C transmitters, paging systems, or other electrical noise.
- In the event that weeds become entangled in the propeller, stop the motor before attempting to remove them.
- If your boat should happen to stall, water currents will slowly carry it to shore. Keep in mind that the boat could be carried to the opposite shore. When surveying areas to run your Wildcat EP, keep variables in mind such as wind direction, size of the lake, etc. It is not advisable to run R/C boats on any free-flowing bodies of water such as creeks or rivers.
- Always remove the battery pack from the boat before charging.

SPECIFICATIONS

WILDCAT EP BOAT SPECIFICATIONS

Length:	26.5" (673mm)
Overall:	29" (737mm)
Beam:	9" (229mm)
Height:	5.5" (140mm)
Weight:	32oz. (89grams) (RTR w/o batteries)
	Run times: 4 to 6 minutes
Speeds:	Up to 25mph

BOAT FEATURES

- Tactic™ TTX240 2.4GHz transmitter with TR325 receiver
- 1800Kv brushless out-runner motor
- LiPo ready (3S) 50 Amp brushless motor controller with low battery warning system and battery cut off circuit
- Tough, light-weight ABS construction with square hatch opening for easy taping
- Great looking pre-applied graphics
- Twin rudders with breakaway shear bolt design

ALSO INCLUDES

- Surface drive propeller system
- Water-cooled motor mount
- Breakaway twin rudders
- Transom mounted water pickup
- 1/8" [3.2mm] prop shaft
- Two blade FRP propeller
- Transom drain plug

MOTOR

KV rating:	1800kv
Operate current:	3.8A, 8V/DC (Without loading, 8V/DC)
Input:	3-S LiPo battery
Max current:	55A/15S
Shaft diameter:	4 mm
Motor resistance:	37 mΩ
Dimension:	35 mm × 36 mm
Weight:	107g ±10g
Plugs:	4 mm

MOTOR CONTROLLER

Amps:	50 amp continuous
Max Amps:	65A 10 sec
Voltage range:	9V-12.6V
BEC:	5V 2A
Motor Connectors:	4mm bullet (3)
Battery Connector:	Deans®
Stutter Voltage:	9.7 volts
LVC:	9 volts
Wire Gauge:	#14
Max Output Power:	500 watts
On-Resistance:	0.0015 ohms
Operating Frequency:	8KHZ PWM , 16MHZ MCU
Timing Angle:	Auto

AQUB1810 Wildcat EP Mnl.indd 3 10/3/2011 2:04:48 PM

UNDERSTANDING YOUR TRANSMITTER

To help you better understand your transmitter and its functions, here is a picture identifying the operational features.

1 Steering Wheel

2 LED Power Indicator

3 Power ON/OFF Button

4 Throttle Trigger

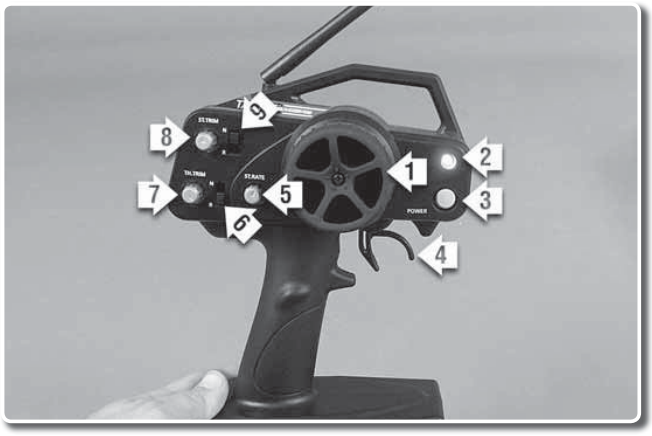
5 Steering Rate Adjustment (this is used to increase or decrease the turning radius of the boat)

6 Throttle Reversing Switch ("R" is the position the switch needs to be in for your Wildcat EP)

7 Throttle Trim Dial (this should be in the 2:00 o'clock position)

8 Steering Trim (this is used to adjust the tracking of the boat)

9 Steering Reversing Switch (this should be in the "R" position to operate your Wildcat EP)



ASSEMBLY SEQUENCE

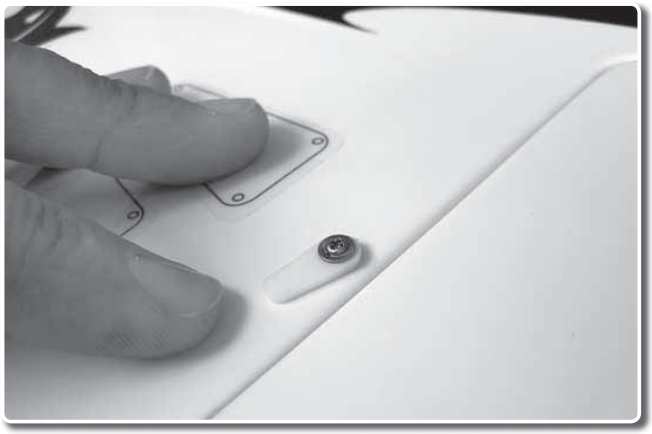
INSTALLING THE TRANSMITTER BATTERIES

Install 4 "AA" batteries into the transmitter in the configuration molded into the battery floor.

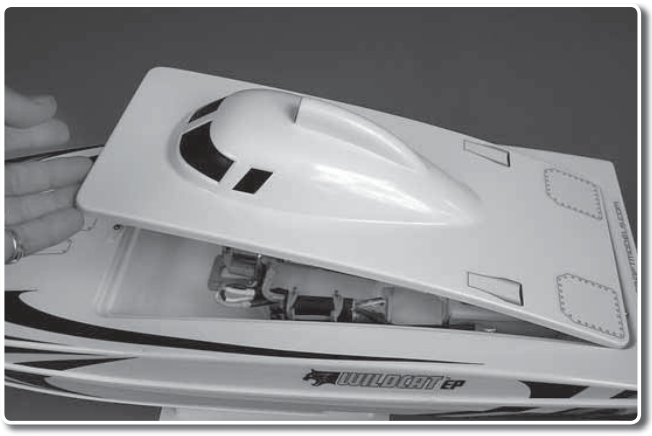
Note: Turn the transmitter "ON" by pressing the button on the right side of the transmitter. The battery level indicator light (LED) should glow red. If the light is flashing the batteries are low and need to be replaced.

INSTALLING THE BATTERY PACK IN THE BOAT

Remove the canopy by rotating the lock near the front of the windshield.



Lift and remove the cowl from the boat.

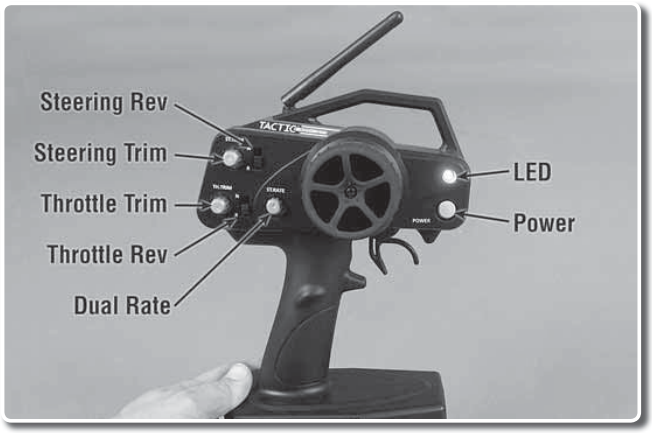


AQUB1810 Wildcat EP Mnl.indd 4 10/3/2011 2:04:50 PM

Install the battery pack by strapping it in place using the provided hook and loop material.

ARMING

Turn on your transmitter.



Plug the battery pack into the motor controller.

When you plug the motor into the motor controller you will hear the motor beep, letting you know the boat is powered up. **(Note: The boat becomes LIVE when the battery is plugged in.)** Squeeze the throttle trigger fully and you will hear 2 beeps. Relax the throttle trigger and you will hear three more. The boat is now armed and ready to run. **(Note: The arming process has to be done each time you plug the pack into the boat.)**

Let's review:

When you plug in the battery pack you will hear a **beep**.

When you squeeze the throttle trigger fully you will hear **beep-beep**.

When you relax the throttle trigger you will hear **beep-beep-beep**.

The boat is now armed.

RUNNING YOUR WILDCAT EP

Place the canopy on the boat and turn the front lock to hold it in place. Your boat is now ready for operation. **NOTE:** It is best to tape the canopy closed. This is the best system for keeping water out of your boat. You can also upgrade to our premium tape, Grimracer Pro Radio Box Tape (AQUB9514), making application and removal much easier.

Place the boat in water that is at least 12" deep. Make sure the water is free of weeds, sticks or other floating debris.

This boat is FAST! Having said this, it is best to be quite aggressive with the throttle to overcome any cavitation that the boat might encounter as it starts to move forward. It's also a good idea to run in a larger pond. Running your Wildcat EP in a pool should be avoided.

After you have completed a run it is best to FIRST unplug the boat's power battery. This safely powers down the boat before turning off your transmitter.

AQUB1810 Wildcat EP Mnl.indd 5 10/3/2011 2:04:52 PM

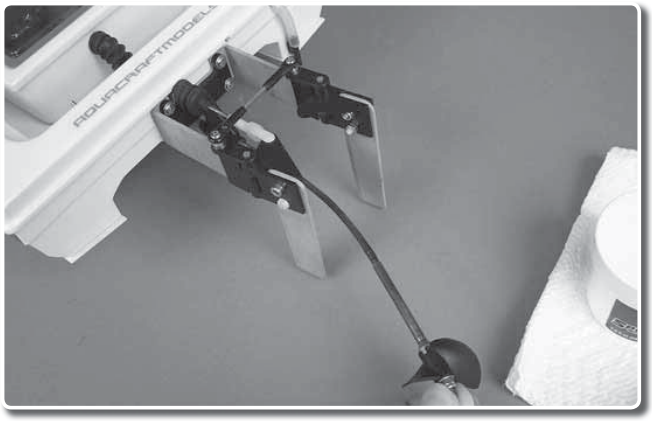
IMPORTANT: If your boat takes on a large amount of water and stalls in the middle of the lake, don't worry; your Wildcat EP has foam flotation so it will not sink. You will, however, have to retrieve the boat and remove the canopy to remove any water that might have entered. If the inside of the boat is flooded, remove the transom plug from the back of the boat and allow the water to drain. Allow the boat to fully dry before operating it again. Remember to re-install the transom plug before running your boat again.

MAINTENANCE

It is important to remove and re-lubricate the drive shaft after a day of running. Make sure the battery pack is unplugged. To lubricate the cable you will need a 1.5mm hex wrench, GrimRacer Cable Grease and some paper towels.

Using a 1.5mm hex wrench, loosen the set screws holding the drive cable to the motor coupler. It is important to note that there are two set screws holding the cable in position.

Slip the drive shaft out of the back of the boat. Wipe off any grease and water that might be on the shaft.

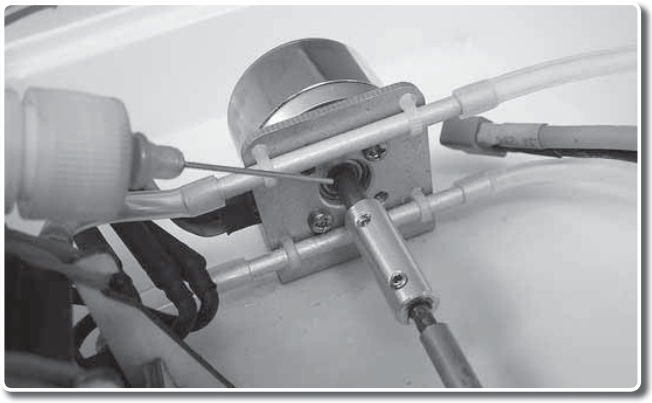


Using GrimRacer speed grease, apply a small amount to the shaft and slide the cable back into the boat. Be careful to align the drive shaft to the hole in the end of the motor coupler.

AQUB1810 Wildcat EP Mnl.indd 6 10/3/2011 2:04:54 PM

Tighten the set screws to hold the drive shaft in place. Do not over tighten the set screws. It is also a good idea to tighten one screw lightly and then the other. Go back and forth between screws to keep even tension on the drive shaft.

Now is also a good time to place a drop of light oil on the motor bearing.



ORDERING REPLACEMENT PARTS

To order replacement parts for the AquaCraft Wildcat EP use the order numbers in the replacement parts list that follows. Replacement parts can be purchased from your local hobby shop or by mail order. If you need assistance locating a dealer to purchase parts, visit www.hobbico.com and click on "Where to buy". If you are missing parts, contact Hobbico Product Support at:

Phone: 217.398.8970
Fax: 217.398.7721

E-mail: productsupport@hobbico.com

AQUB6235	Cowl Wildcat EP
AQUB8001	Drive Cable with Prop Shaft Wildcat EP
AQUB9013	Servo Rudder Linkage Wildcat EP
AQUB7909	Motor Mount with Water cooling Wildcat EP
AQUB8803	Strut Bracket Wildcat EP
AQUM7000	50-Amp water cooled controller Wildcat EP
AQUG7004	1800Kv Outrunner Brushless Motor Wildcat EP
AQUB8615	Radio Box Lid Wildcat EP
AQUB8616	Radio Box Wildcat EP
AQUB8741	Rudders with Rudder Bolts
AQUB8743	Rudder Mount Bracket with Pivot Brackets
AQUB8740	Rudder Control Arm Pivots
AQUB8744	Rudder Arm Linkage Set Rio EP, Wildcat EP
AQUB7797	42mm FRP Prop Rio EP, Wildcat EP
AQUB7901	Rudder Nylon Break-Away Bolts and Nuts
AQUB8745	Rudder Pivot Hinge Pins and Set Screws
AQUB9277	Transom Drain Plug Mini Thunder, Rio EP, Wildcat EP
AQUB6402	Cowl Latch Mini Rio, Thunder, Rio EP, Wildcat EP
AQUB7908	Motor Coupler Rio EP, Wildcat EP
AQUB9045	Transom Water Pick Up Mini Rio, Thunder, Rio EP, Wildcat EP
AQUM7050	AQUM7050 Steering Servo Mini Rio, RR2, Thunder, Rio EP, Wildcat EP
AQUB7852	AQUB7852 Drive Dog with Prop Nut Hammer EP, Rio EP, Wildcat EP
TACJ0245	TACJ0245 Tactic 2.4GHz Pistol Grip Transmitter and Receiver

AQUB1810 Wildcat EP Mnl.indd 7 10/3/2011 2:04:56 PM

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions.

(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Rf Radiated Exposure Statement: The equipment complies with FCC Rf radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC ID: IYFTTX240A

CE Compliance Information For The European Union

Instructions for Disposal of Waste Equipment by Private Users in the European Union:

This symbol on the product or its packaging indicates this product must not be disposed of with other household waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or location where you purchased the product.

Declaration of Conformity:

Product: Tactic TTX240 2.4GHz 2-Channel Pistol Tx Rx
Item number: TACJ0245
Equipment class: 1

CE

Tactic TTX240 transmitter and Tactic TR324 receiver:

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European 2006/95/EC Low Voltage Directive:

EN 60950-1:2006 *Safety*

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1995/5/EC:

ETSI EN 300 328 V1.7.1 *Technical requirements for radio equipment*
ETSI EN 301 489-1 V1.8.1, 301 489-17 V1.3.2 *General EMC requirements for radio equipment*

Tactic
c/o Hobbico, Inc.
2904 Research Road
Champaign, IL USA 61826

CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use.

UK	DE	DK	BG	SE	FI	
EE	LV	LT	PL	CZ	SK	HU
RO	SI	AT	IT	ES	PT	IE
NL	LU	MT	CY	GR		

© 2011 Hobbico,® Inc. All rights reserved.